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UB CODE:	09/ 1 3 /	SUBM DATE	5: 078	ep65/	ORIG	REF:	001/	OTH REF:	005	
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L 02456-67 EWT(1)/T IJP(c) AT ACC NRI AP6018086 (A)SOURCE CODE: UR/0377/65/000/005/0026/0028 AUTHOR: Limarov. G. Ya. (Candidate of physico-mathematical sciences); Zhadrayev. U. Zh ORG: Physico-Technical Institute, AN UzSSR (Fiziko-tekhnicheskiy institut"AN UzSSR) TITLE: Permissible values of air pressure in inflated (vacuum) film solar concentrators 70 SOURCE: Geliotekhnika, no. 5, 1965, 26-28 TOPIC TAGS: solar energy conversion, shell structure, elastic deformation, applied mathematics, gas pressure, metal film ABSTRACT: The problem of evaluating the values of the permissible air pressures in a chamber as a function of the initial state of the metallized film and the concentration of the solar rays at the focal point is discussed. The authors set up the pertinent formulas for a stressed metallized synthetic film (assumed absolutely flexible) under the action of gas pressure (V. I. Feodos'yev, Uprugiye elementy tochnogo priboro stroyeniya, Moscow, Oborongiz, 1949). He concludes that the initial position of the metallized film determines the subsequent value of the permissible air pressure P_{\max} in the chamber and the maximum concentration of the solar rays at the focal point or the optimum gas pressure in the chamber. Orig. art. has: 2 figures. SUB CODE: 10,20/ SUBM DATE: 06Jul65/ ORIG REF: 004 Card 1/1 a.k

EWT(d)/EWT(1)/EWT(m)/EWP(k)/EWP(h)/T-2/EWP(v)/EWP(t)/ETI/EWP(1)44686-66 ACC NRI AP6005375

SOURCE CODE: UR/0413/66/000/001/0120/0120

AUTHORS: Umarov, G. Ya.; Alimov, A. K.; Ovechkin, N. F.

ORG: none

TITLE: Rapid-action electrodynamic membrane valve.

Class 47, No. 177720

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 1, 1966, 120

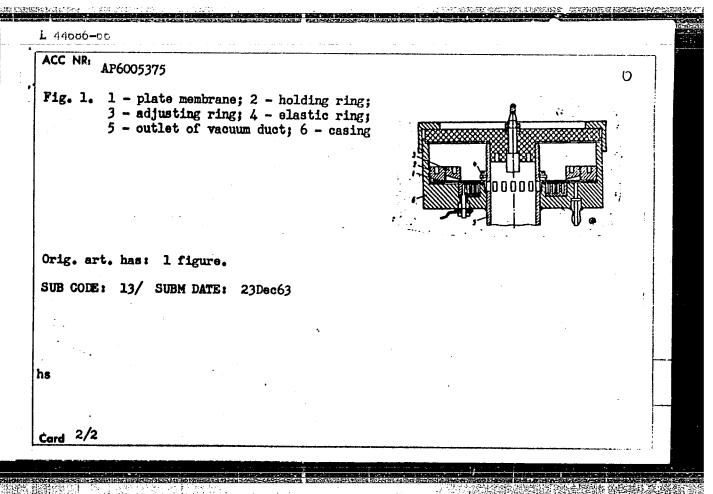
TOPIC TAGS: valve, vacuum technology, gas flow

WW/JD

ABSTRACT: This Author Certificate presents a rapid-action electrodynamic membrane valve (after Author Certificate No. 128243) for delivering a small dose of gas into a high-vacuum chamber. The valve is provided with a closing mechanism consisting of a metallic membrane mounted above a spiral. To open the valve for a short interval of time, electric current from a discharging condenser is passed along the spiral. To be mounted on a long vacuum chamber for radial injection of gas into a cylinder, the valve carries a perforated plate membrane. The latter is held at the edges with pressing and adjusting bars and is fixed in the central part by elastic stiffener rings (see Fig. 1). These rings are located at the outlet of the vacuum duct. This outlet has lateral openings through which gas may pass into the cylinder. The outlet nipple passes through the central openings in the membrane and in the base

Card 1/2

UDC: 621 646.86-278



ACC NR. AP6031015

(A)

SOURCE CODE: UR/0167/66/000/004/0063/0065

AUTHOR: Umarov, G. Ya.; Alimov, A. K.

ORG: Physico-Technical Institute, AN UzSSR (Fiziko-tekhnicheskiy institut AN UzSSR)

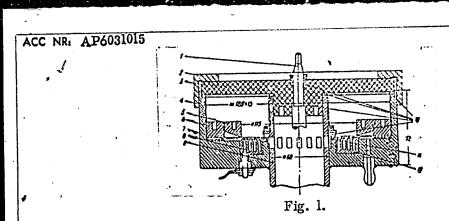
TITLE: A rapid-acting electrodynamic pulsed valve for peripheral admission of gas to a vacuum chamber

SOURCE: AN UzSSR. Izvestiya. Seriya tekhnicheskikh nauk, no. 4, 1966, 63-65

TOPIC TAGS: valve, vacuum chamber, electrodynamics, pulsed magnetic field # 100 Field # 10

ABSTRACT: By contrast with the conventional types of plate valves, this new electrodynamic pulsed valve is equipped with a spring-loaded center-hole plate in an elastically deformed state which assures its airtightness. The operation of this valve is based on the electrodynamic interaction between currents from the metal-disk plate of the valve and a pulsed coil located beneath this plate, through which the capacitor discharge current is passed; this interaction causes the plate to rise and radially admit gas into the system. The principal work part is the center-hole steel plate 7 (Fig. 1). The central part of this plate may rise while its rim is held in a fixed position by clamping ring 6. As a result, when the valve is open, gas enters

Card 1/3



the system via a row of radial orifices in the cylindrical chamber 9. Control ring 5 causes the plate to be elastically deformed. Base 4 of the valve is airtightly welded to the vacuum cylinder. Packing II below the valve plate consists of teflon. In its central part the packing of the plate is represented by rubber ring 10. The plate is made of 65-G steel, copper-plated on both sides in order to increase the induction current arising in the plate when a pulsed magnetic field is generated in its neighborhood. Mounted underneath the plate is coil 8. The upper part of the valve is closed by means of organic-glass lid 3 with clamping nut 2. Mounted on this lid is the high-voltage electrode 1 of an electrodynamic coaxial gun. A connecting pipe for the supply of gas is welded to the valve housing. The valve control circuit can regulate the amount

Card 2/3

ACC NR: AP6031015

of energy supplied to the valve coil and to determine, with the aid of a mechanical counter. its triggering frequency. This particular valve is specially designed for installation in a long vacuum line with the object of radial injection of gas into the cylinder, as well as for utilization in coaxial plasma injectors. The duration of its open state can be smoothly regulated for from 10 to 150 µsec, and the admission of gas during that interval of time can be regulated at from 5·10¹⁵ to 9·10¹⁶ particles per pulse. Orig. art. has: 3 figures.

SUB CODE: 13, 20/ SUBM DATE: 12May64/ ORIG REF: 006/ OTH REF: 005

Card 3/3

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001857930010-7"

ACC NR: AR6013634

SOURCE CODE: UR/0058/65/000/010/V012/V012

AUTHOR: Bondarenko, G. N.; Umarov, G. Ya.

TITLE: The conversion electron spectrum of long-lived isotopes of lute ium

SOURCE: Ref. zh. Fizika, Abs. 10V116

REF SOURCE: Tr. Tashkentsk. politekhn. in-ta, vyp. 24, 1963, 104-111

TOPIC TAGS: lutetium, conversion electron spectrum, beta decay

TRANSLATION: A β -spectrometer of the ketron type with a variable transverse magnetic field was used to measure the conversion electron spectrum of Lu¹⁷³ and Lu¹⁷⁴ isotopes present in the lutecium fraction of the products of the spallation of Ta by fast protons. The instrument allowance was 0.6% for $\omega/4\pi$ = 0.9%. Because of the thickness of the source, the half-width of lines in the 140 keV region was amplified by 1.2%. The results support the data of other authors on the datay of these isotopes.

SUB CODE: 18,20

Card 1/1

ACC NR AP6030126

(N)

SOURCE CODE: UR/0120/66/000/004/0039/0041

AUTHORS: Gronov, K. Ya.; Mukhtasimov, F. N.; Umarov, G. Ya.

ORG: Joint Institute for Nuclear Research, Dubna (Obnyedinennyy institut yadornykh issledovaniy)

TITLE: A mothod of intensifying the images of weak lines of conversion electrons, obtained with a beta spectrograph

SOURCE: Pribory i tekhnika eksperimenta, no. 4, 1966, 39-41

TOPIC TAGS: conversion electron spectrum, spectrographic camera, beta decay, photographic processing, isotope, sulfur, silver compound

ABSTRACT: A method of intensifying the images of weak lines of conversion electrons, obtained with a beta spectrograph, is proposed. The work was done to increase the officiency of photographic recording of electrons. The developed and dried plate with images of conversion electrons is soaked with distilled water at $\pm 22C$ and is immersed in a solution of $K_3Fe(CN)_6(15 g)$, KBr (4 g), and H_2O (300 g). The following chemical reactions take place

 $A_{g} + 4K_{g}F_{0} (CN)_{g} = 3K_{g}F_{0} (CN)_{g} + Ag_{g}F_{0} (CN)_{g} + 4KBr = K_{g}F_{0} (CN)_{g} + 4AgBr_{0}$

Card 1/2

UDC: 539.16

ACC NR: AP6030126

After decolorizing, the plate is washed until the yellow-green deposit disappears. It is then processed in a 0.8-0.1% solution of N_2S^{35} for 15 min. The radioactive sulfur joins the silver atoms:

2AgBr + Na₂S³⁵ = Ag₂S³⁵ ÷ 2NaBr.

The activated plate is washed in running water (for about 30 min) and dried. A fresh photographic plate is applied to the activated plate; a new, secondary image is created. The degree of intensification (attenuation) depends upon the exposure time. This method makes it possible to intensify the images of lines by a factor of at least 15. Orig. art. has: 2 formulas and 2 graphs.

SUB CODE: 20,14 SUBM DATE: 19Jul65/ ORIG REF: 003/ OTH REF: 004

Card 2/2

ACC NR: AP7004640

SOURCE CODE: UR/0288/66/000/003/0104/0105

AUTHOR: Umarov, G. Ya.; Lyutovich, A. S.; Yermatov, S. Ye.; Karimov, F. R.

ORG: Physico-technical Institute, AN UzSSR, Tashkent (Fiziko-tekhnicheskiy institut AN UzSSR)

TITLE: The possibility of obtaining semiconductor and difficultly fusible materials with the aid of a jet discharge

SOURCE: AN SSSR. Sibirskoye otdeleniye. Izvestiya. Seriya tekhnicheskikh nauk, no. 3, 1966, 104-105

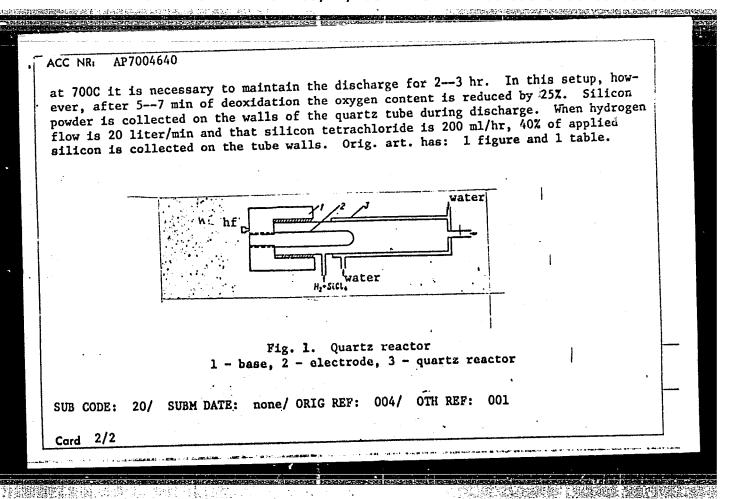
TOPIC TAGS: thermal reactor, oxidation reduction reaction, gas discharge, high frequency discharge, metal epide, well well nucleur reactor

ABSTRACT: A gas discharge setup (see Fig. 1) is described for deoxidizing such materials as silicon oxide and metallic oxides. The discharge in this water-cooled quartz reactor is maintained by 10-kw, 25-Mc, rf energy source and the raw materials are SiCl $_4$ and $\mathrm{M}_0\mathrm{O}_3$. The reactor is 75 cm long and 20 cm in diameter. When molybden-

um oxide is being reduced cooling is not necessary. The discharge is started at silicon electrode progressing to the surrounding mixture of hydrogen and silicon tetrachloride. When molybdenum oxide is being reduced the electrode is made of molybdenum. Under normal conditions to reduce molybdenum trioxide to dioxide state

Card 1/2

UDC: 621.315.592+669.018.45+669.094.1



Silkworm. USSR / Farm Animals.

Ω=6

Abs Jour: Ref Zhur-Biol., No 12, 1958, 54889.

Umarov, K. Author

: Not given. Inst

: Luminescent Analysis in the Biology of the Mul-Title

berry-Feeding Silkworm.

Orig Pub: Uch. zap. Andizhansk. ped. in-ta, 1955, vyp. 2,

133-139.

Abstract: The technique of luminescent analysis of the

cocoons of the mulberry-feeding silkworm is described. The cocoons of the White Cocoon mono-, bi-, and polyvoltine breeds and their hybrids produce three principal types of luminescence: blue-violet, yellow, and yellowviolet, with the intensity of fluorescence from 0 to 94%. The most valuable, naturally

Card 1/2

68

USSR / Farm Animals. Silkworm.

Q-6

Ahs Jour: Ref Zhur-Biol., No 12, 1958, 54889.

Abstract: white, cocoons emit an intense blue-violet luminescence. The presence of the cocoons of yellow luminescence among the White Cocoon breeds and their hybrids constitutes an undesirable trait in the breeds and their crosses. The yellow pigment disappears in the process of the production of the tissue, but in dyeing the tissue becomes striped. Luminescent analysis may be used at breed-research stations for the purpose of evaluation of the qualities of the new White Cocoon breeds.

Card 2/2

NAMES AND PERSONS ASSESSED.

13 o'correct. General Biology. YSO DER'AB Genetics. Animal Genetics. 1959, No. 97/3 : RZhBiol., No. 3. ABS. JOUR. : marov. K. : Andishenskiy State Pelagogical Institute. . 白性的語 : The Inheritance of the Cocoons! Blue-Wioles . ;;. Luminespeace and Its Being Influenced by مناط کیا Extornal Factors. : Uch. zap. andishansk. gos. ped. in-t, 1976, 3, ORAG. PUB. 139-149 : A selection according to the Indicator of violet luminiscence performed for 4-5 gener-PORMER ations in 7 white-cocooned newly selected species (SANIIS) Nos 8, 9, 11, 17, 13, 21, TASESTAL No 112) which were nearrogenetic in terms of the coccons! luminescence in UV-rays, produced an increase of the percentage of wiolet coccons from 16.7-64.7 to 70.4-30.4. Experiments in which leaves of various grees of rigoness or which were taken from C. E. S. . . . 117

COUNTRY

: USSR

CATEGORY

ABS. JOUR.

1959, No. RZhBiol. No.

AUTHOR

INST. TITLE

ORIG. PUB.

ABSTRACT

: top shoots and radical undergrowth were fed, and other experiments in which the complex of hydrothermal conditions characterized by so-called "speedy" and "usual" methods of feed-ing was used, leads the author to the conclusion that when younger leaves which have a smaller "coefficient of hardness", or radical undergrowth leaves are fed and also when the speedy feeding method is used, the formation of pigments which conditions the violet luminiscence of cocoons becomes

Card:

2/3

UMAROV, K. A.

"Use of Fluorescent Analysis in Silkworm Breeding." Cand Agr Sci, Tashkent Agricultural Inst, Min Higher Education USSR, Tashkent, 1954. (KL, No 5, Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (13) SO: Sum. No. 598, 29 Jul 55

timothy	grass in pure a .14:304-311 Oridation-redu	and mixed stands ction reaction) ([W.S.1.E]. Irudy 1	Nover and Sot. inst. (IRA 14:3)
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	i.			
	timothy	timothy grass in pure a Ser.4 no.14:304-311 (Oxidation-redu	timothy grass in pure and mixed stands	(Oridation-reduction reaction) (Red clover)

UMAROV, KH. U.

Dissertation defended in the Botanical Institute imeni V. L. Komarov for the academic degree of Candidate of Biological Sciences:

"Physiological Study of Plant Interrelationships in Artificial Synoses."

Vestnik Akad Nauk No. 4, 1963, pp. 119-145

UMAROV, Kh.U.

Variations in the respiration rate of red clover (Trifolium pratense L.) and timothy grass (Phleum pratense L.) Bot.zhur. 47 no.2:245-250 F *62. (MIRA 15:3)

l. Institut genetiki i fiziologii rasteniy AN Uzbekskoy SSR, Tashkent.

(Red clover) (Timothy grass) (Plants-Respiration)

SOURCE: Ref. zh. Riologiya. Syndhyay tom, Aos. 18037

AUTHOR: Umarov, Kh. U.

TITLE: Some characteristics of photosynthesis intensity changes in red clover and meadow timothy

CITED SOURCE: Dokl. AN UZSSR, no. 3, 1964, 52-55

TOPIC TAGS: clover, timothy, plant, photosynthesis, loaf, assimilator, agriculture

PANCIAT. N: The photosynthesis varies of red clover and meadow timothy in pure and mixed plants while of red clover and meadow timothy in pure and mixed plants while institute itation in 1958, 1959, and 1960 at a hiological institute itation in Leningrad oblast! Photosynthesis intensity of clover was higher with unmixed planting, but no differences were found for timothy. Photosynthesis was most intense in clover during shoot formation and in timothy during the tillering and spiking periods. No direct

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AGCESSION NR: ARHO47776

relation was observed between photosynthesis intensity and yield for assimilator surface. Productive assimilation in clover is line.

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AND SECTION AND SECTION ASSESSMENT OF THE SE

UMAROV, Kh.U.

Growth, development, and productivity of plants as related to the methods of sowing. Uzv. biol. zhur. 9 no. 6:24-27

1. Institut eksperimental noy biologii rasteniy AN UzSSR. Submitted March 14, 1964.

KAZIYEV, M.Z.; UMAROV, Kh.Z.

Effect of potassium fertilizers on hay yields and accumulation of the root mass of alfalfa in mendow soils of the zone of Central Asia. Pochvovedenie no.7:81-86 (MIRA 13:7)

1. Tashkentskiy sel'skokhozyaystvennyy institut.
(Tashkent Province-Alfalfa-Fertilizers and manures)
(Plants, Effect of potassium on)

UMAROV, Kh. Z., Cand Tech Sci. -- "Effect of potassium fertilization on the harrest, chemical composition of the alfalfa seed and root substance on the meadow soils of Tashkentskaya Oblast." Tashkent, 1961. (Min of Agr KSER. Kirgiz Agr Inst im K. I. Skryapin) (KL, 8-61, 255)

- 387 -

